Railway Age

Incorporating Modern Railroads

January 1992

Managing for profit, the Santa Fe way

R&D for better brakes

The transit bonanza, and what it means

Special report: Risk management

Railroader of the Year

William H. Dempsey

Short lines & regionals: A cautionary tale

January 1992

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SPECIAL SECTION: Risk Management

Managing railroad risk in the 1990s ..... p. 43
Railroad Protective Insurance ..... p. 44
Professionals ease the way ..... p. 46
The liability insurance marketplace ..... p. 50
Talking to a pro ..... p. 51

60 TMB bets big on Johnstown

Johnstown America Corp., formerly Bethlehem's FCD, will improve two manufacturing plants and expand a profitable freight-car line.

61 Resignaling Grand Central

Metro-North has invested $87.2 million in a new signal and control system designed to meet the needs of the 21st century.

25 Santa Fe: Managing for profit

The Rob Krebs strategy: "We are cutting out everything that doesn't contribute directly to making our product, and then taking the functions that do contribute and making them more efficient."

38 Improving locomotive diagnostic systems

Microprocessor-driven diagnostic systems work well technically, but they may need enhancement before they are working with maximum effectiveness.

30 Railroader of the Year: William H. Dempsey

First at the NRLC, then at the AAR, Bill Dempsey took on two challenging assignments and handled both in a way that has made a lasting, positive impact on the industry.

54 For SP dispatchers, an extended reach

To permit dispatchers to control trains in non-ctc territory, SP is enhancing a Digicon-developed traffic control system.

35 Better railroading through R&D: Braking systems

As the AAR's R&T Department continues to work toward improving present systems, a long-term effort is investigating advanced braking alternatives.

56 Transit hits the bullseye

The new transportation act represents a shift in national policy that will hugely benefit mass transit and high speed rail.

Comment

4 Inside
12 Watching Washington
13 Lines on Labor
14 Financially Speaking
63 In Transit
64 Marketing Advocate
80 Perspective

Departments

9 Industry Outlook
10 Market Outlook
67 Products
72 100 Years Ago
73 People in the News
74 Meetings
75 Advertising Sales
75 Advertising Index

Update

16 New S-B Chairman: Arthur J. McGinnis, Jr.
16 Railroad Women honor NS' Deborah Harris
16 CN will build new transborder tunnel
16 Conrail takes downsizing charge
16 Santa Fe consolidating locomotive repairs
17 Conrail, Inland, Thrall introduce CoilSHIELD

Intermodal

19 Philadelphia gets new container yard
19 Three intermodal groups merge into IANA
20 Hub produces video on quality drayage
21 New intermodal links for U.S. & Mexico

Short Lines and Regionals

22 WC bridge gets new, stronger spans

Transit

23 San Diego buys Santa Fe line
23 New trains link Bay Area, Sacramento
23 MK rolls out first Chicago cars
23 Dade voters reject penny sales tax

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Market Outlook

Equipment

San Francisco Municipal Railway: Awarded an $82,087,695 contract to Breda Construzioni Ferroviarie of Pistoia, Italy, for 35 a.c. propulsion light rail vehicles. The contract carries an option for an additional 20 LRVs. The new cars will be 75 feet long, 9 feet wide, and 11 feet 4 inches high. Each will weigh approximately 76,000 pounds and will accommodate 62 seated passengers and up to 164 standees. General Electric will supply a.c. inverter propulsion packages.

Wisconsin Electric Power: Ordered 375 110-ton-capacity, aluminum sided, double tub coal cars from Thrall Car, with production scheduled for second quarter 1992. The cars were designed by TARCO, a joint venture between Thrall Car and Alcan Aluminum. Completion of the Wisconsin Electric Power order will bring the number of Thrall Car-built aluminum coal cars to more than 3,500.

Facilities

Los Angeles County Transportation Commission: Gave Morrison Knudsen notice to proceed on a $15.5 million contract to install 31 miles of track for a light rail line, part of the Green Line, running from Norwalk along the new Glenn Anderson Freeway to the I-105 Freeway interchange near Los Angeles International Airport. Construction will begin early this year and is to be completed in late 1993.

Los Angeles County Transportation Commission: Awarded a contract valued at more than $40 million to Union Switch & Signal to design, build, and install an automatic train control system for the Metro Green Line. US&S President Walter Alessandrini said the company will implement a fixed block control concept for this first fully-automated driverless light rail system in the U.S.

Metropolitan Transit Development Board (San Diego): Awarded a contract to Parsons Brinckerhoff Construction Services to provide construction management services for grade separations, at-grade track work, traction power substations, passenger stations, signaling, and overhead catenary for the $33 million, 3.6 mile El Cajon-Santee light rail extension.

Washington Metropolitan Area Transit Authority: Retained the architectural engineering firm of URS Consultants, Inc., as lead engineers for a 1.3-mile, $45 million extension of the Red Line to Glenmont, Md., from its present terminus at Wheaton. Bidding is scheduled for March 1993 with construction to be completed in 1996. URS' design will permit use of the New Austrian Tunneling Method (NATM), which substantially reduces construction costs and minimizes the risk of delays. URS prepared designs for the Glenmont Route in 1979 but the project was put on hold.

Revenue freight carloadings

Commodity	Dec. 7 week	Nov. 30 week	Nov. 23 week	Nov. 16 week
Grain	31,025	22,709	29,491	29,709
Other farm products	2,521	2,127	2,228	2,386
Metallic ores	15,695	14,499	17,609	15,886
Coal	127,436	103,546	140,993	131,933
Crushed stone, gravel and sand	11,906	8,128	12,401	13,092
Nonmetallic minerals	7,809	7,249	7,353	8,858
Grain mill products	10,868	8,841	9,902	9,946
Food and kindred products	9,469	7,740	9,335	9,329
Primary forest products	9,353	6,779	9,893	9,609
Lumber and wood products	5,305	4,632	5,913	5,416
Pulp, paper and allied products	10,302	10,139	10,108	9,476
Chemicals and allied products	28,930	24,139	28,742	27,701
Petroleum products	5,288	3,985	5,206	5,415
Stone, clay and glass products	8,271	6,557	8,537	8,783
Coke	5,415	5,120	5,415	5,442
Metals and products	8,724	8,944	9,899	9,989
Motor vehicles and equipment	18,119	12,155	17,875	17,801
Waste and scrap materials	8,035	6,315	8,765	8,819
All other carloads	6,485	5,021	7,408	6,946
Total Cars Loaded	**330,966**	**268,625**	**347,073**	**336,536**
% change from previous year	(2.1)	(22.8)	(26.6)	(1.5)

		% change
Cumulative total: 49 weeks	15,761,309	(4.8)

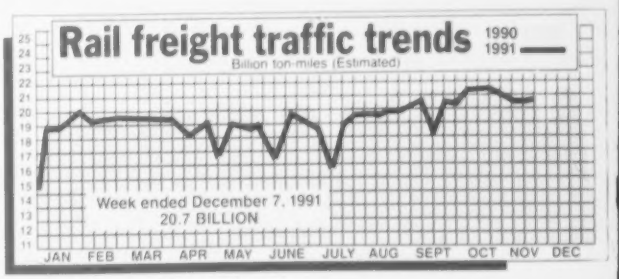
Estimated revenue ton-miles (billions)	20.7
% change from previous year	(1.0)

Total:	**1991**	**1990**	**% change**
49 weeks	964.7	838.1	(15.1)

Intermodal traffic

	Dec. 7	Nov. 30	Nov. 23	Nov. 16
Trailers	68,568	53,475	69,876	67,979
Containers	59,014	52,613	65,377	64,531
Total	**127,582**	**106,088**	**135,253**	**132,510**
% change from previous year	5	(17.9)	37.0	(4.7)

		% change
Cumulative total: 49 weeks	5,894,705	4


Rail freight traffic trends
1990
1991
Billion ton-miles (Estimated)
Week ended December 7, 1991
20.7 BILLION
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Source: Association of American Railroads

Bolivian National Railways: Awarded a $4 million contract to Canac International of Montreal, a division of Canadian National Railways, to assist in reorganizing Bolivia's railway system into "a customer-oriented, commercially-viable transportation company." Canac will be assisted in the project by Germany's Deutsche Eisenbahn-Consulting GmbH.

Passenger-car market at-a-glance

These cars were delivered in 1991:

Purchaser	No. of cars	Type	Builder
Baltimore (MTA)	6	Light Rail	ABB
Baltimore (MARC)	25	Commuter	Sumitomo Nippon Sharyo
	12	Rebuilt Commuter	ABB
Boston (MBTA)	71	Bi-Level Commuter	Kawasaki
Chicago (CTA)	4	Rapid Transit	Morrison-Knudsen
Connecticut (ConnDOT)	20	Commuter	Bombardier
Fort Lauderdale (Tri-Rail)	3	Bi-Level Commuter	Bombardier
Long Island	8	Bi-Level Commuter	Mitsui/USA/Tokyu Car Co.
New Jersey (NJ Transit)	50	Commuter	Bombardier
New York (Metro-North)	10	Commuter	Bombardier
New York (NYCTA)	42	Rebuilt Rapid Transit (R33)	NYCTA
	60	Rebuilt Rapid Transit (R44)	NYCTA
	40	Rebuilt Rapid Transit (R44)	Morrison Knudsen
	484	Rebuilt Rapid Transit (R46)	Morrison Knudsen
Philadelphia (SEPTA)	1	Light Rail	ABB Amtrak
Portland (Tri-Met)	2	Vintage Trolley	Gomaco
Sacramento	8	Light Rail	Siemens-Duewag
Toronto (GO Transit)	22	Bi-Level Commuter	UTDC
Vancouver (BC Transit)	16	ALRT	UTDC
Washington D.C. (WMATA)	2	Rapid Transit	Breda

Work goes forward on this undelivered backlog:

Purchaser	No. of cars	Type	Builder
Amtrak	140	Bi-Level Intercity	Bombardier
Baltimore (MTA)	29	Light Rail	ABB
Boston (MBTA)	86	Rapid Transit	Bombardier
Chicago (CTA)	252	Rapid Transit	Morrison Knudsen
Denver (RTD)	8	Light Rail	Siemens Duewag
New York (Metro-North)	48	Commuter	Morrison Knudsen**
New York (NYCTA)	80	Rebuilt Rapid Transit (R44)	NYCTA
	98	Rebuilt Rapid Transit (R44)	Morrison-Knudsen
	9	New Technology Rapid Transit	Bombardier
	10	New Technology Rapid Transit	Nissho Iwai (Kawasaki)
Northern Indiana (NICTD)	7	EMU Coach	Sumitomo Nippon Sharayo
	10	EMU Trailer	Sumitomo Nippon Sharayo
Philadelphia (SEPTA)	25	Light Rail	ABB Traction
Portland (Tri-Met)	2	Vintage Trolleys	Gomaco
San Diego (MTDB)	75	Light Rail	Siemens Duewag
San Francisco (MUNI)	35	Light Rail	Breda
So. California (SCRRA)	70	Bi-level commuter	UTDC
	10	Bi-level commuter	UTDC
St. Louis (Bi-State)	31	Light Rail	Siemens Duewag
Washington D.C. (WMATA)	98	Rapid Transit	Breda

*Remaining Option
**Purchased with Connecticut DOT

Orders likely to develop in 1992:

Purchaser	No. of cars	Type
Amtrak	100	Intercity
Baltimore (MBTA)	56	Rapid Transit
Chicago (CTA)	118	Rapid Transit
Chicago (METRA)	173	Commuter
Dallas (DART)	40	Light Rail
Fort Lauderdale (Tri-Rail)	9	Bi-Level Commuter
Long Island Rail Road	32	Commuter
Philadelphia (SEPTA)	220	Commuter
Portland (Tri-Met)	39	Light Rail
San Francisco (BART)	50	Rapid Transit
So. California (CalTrans/SCRAA)	24	Bi-level commuter
Toronto (TTC)	216	Rapid Transit
Vancouver (BC Transit)	60	ALRT

The five year (1993-97) outlook:

Purchaser	No. of cars	Type
Amtrak	0-75	Bi-level Intercity
	175	Intercity
	26	High Speed train sets
Atlanta (MARTA)	24*	Rapid Transit
Baltimore	50-100	Commuter
Boston (MBTA)	100	Light Rail
Calgary	7-20	Light Rail
Chicago (CTA)	0-200	Rapid Transit
Chicago (METRA)	158	Commuter
	20	Gallery/EMU
Dallas (DART)	40-72	Light Rail
Fort Lauderdale (Tri-Rail)	10	Commuter
Long Island Rail Road	112	Commuter
New York (Metro-North)	31	Commuter
New York (NYCTA)	0-200	Passenger
Philadelphia (SEPTA)	80-112	Light Rail
Portland (Tri-Met)	0-12	Light Rail
Sacramento	50-90	Light Rail
San Francisco (BART)	50-200	Rapid Transit
San Francisco (MUNI)	0-10	Light Rail
So. California (SCRRA)	17-30	Bi-Level Commuter
St. Louis	5	Light Rail
Toronto (TTC)	286*	Rapid Transit/EMU
Washington, D.C. (WMATA)	100-200	Rapid Transit

*in 97